TAXA NEW TO TURKEY

KIT TAN* & H. OCAKVERDI**

ABSTRACT. Astragalus seydishehiricus Kit Tan & Ocakverdi (Leguminosae) and Chaerophyllum karsianum Kit Tan & Ocakverdi (Umbelliferae) are described from San NE Anatolia respectively. Both new species are based on single gatherings. Another umbel, Seedif grandiviltatum (Somm. & Lev.) Schiischkin previously unknown from Turkey, is now recorded for the first time from the north-east.

The following novitates arise from a study of recent material sent to Dr Kit Tan by Dr H. Ocakverdi who carried out a floristic investigation in Konya and Kars. Both these Turkish provinces are still incompletely botanised and there is certainly much of interest yet to be discovered.

Astragalus seydishehiricus Kit Tan & Ocakverdi, sp. nov. (Sect. Acmothrix Bunge). Fig. 1.

Ab A. acmonotricho Fenzl (Anatoliam australem centralemque inhabitans) foliolis paucioribus, stipulis majoribus et legumine falcato differt.

Herba perennis, semi-prostrata, scaposa, caudice lignoso ramoso. Folia imparipinanta, 8-10em longa; foliola 11-14-juga, elliptica, 8-12 × 2-5-4mm, obtso-apiculata, utrinque adpresse albo-bifurcato-pilosa. Stipulae 10-12mm longae, ad trientes partes coalitae a petiolis liberae. Inflorescentia raceronas, 4-8 em longa, podunculata, ad-10-flora, laxa; flores breviter pedicellatae. Bracteae lanceolatae, 3-5 mm longae. Bracteolae 2. Calys tubulo-campanulata, in attacto estabo-bifurcato-pilos. Corolla ignota Legumen brevisime stipistamu, seminibus pluribus, pendulum, cylindricum, falcatum, (20-)25-30 × c.5 mm, albo-bifurcato-pilos urostrum 4-5 mm longum.

Semi-prostrate, scapose perennial herb with a branched, woody caudex. Leaves imparipinate, 8–10 cm; leaflest 11–14-paired, elliptic, 8–12 × 2-5-4 mm, obtuse-apiculate, adpressed white bifurcate-pilose on both surfaces. Stipules 10–12 mm, united for 3/4 of their length, free from petioles. Inflorescence a 4–8 cm, pedunculate, up to 10-flowered lax raceme; flowers shortly pedicellate. Bracts lanceolate, 3–5 mm. Bracteoles 2. Calyx tubular-campanulate and not inflated in fruit, c.10 mm (incl. 2–3 mm linear teeth), ± adpressed black and white bifurcate-hairy. Corolla unknown. Legume very shortly stipitate, several-seeded, pendulous, cylindrical, falcate, (20–)25–30 × c.5 mm, white bifurcate-hairy; beak 4–5 mm. FI. May (visual record); fr. June.

Type. Turkey C4 Konya: Seydişehir, north side of Kuyucak Dağ, open Quercus forest, c. 1500 m, 28 vi 1982, H. Ocakverdi 1628 (holo. Selçuk Üniv. Konya, photo & Íragm. E).

This new S Anatolian endemic is known only from the type gathering, which is in fruit and from a little-botanised area. The species in several respects resembles A. acmonotrichus Fenzl from S and C Anatolia, which

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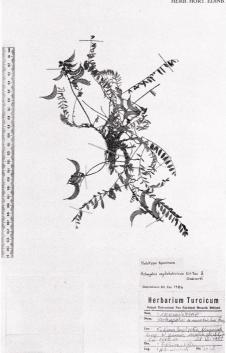


Fig. 1. Holotype of Astragalus seydishehiricus Kit Tan & Ocakverdi (Ocakverdi 1628).

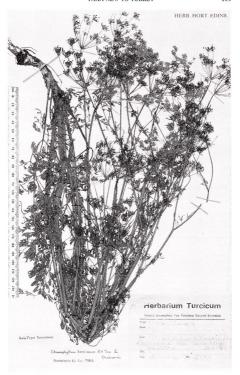


Fig. 2. Holotype of Chaerophyllum karsianum Kit Tan & Ocakverdi (Ocakverdi 2453).

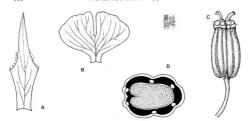


Fig. 3. Chaerophyllum karsianum: A, bracteole ×10; B, petal ×10; C, fruit ×5; D, T.S. mericarp (diagrammatic).

however, differs in having more numerous leaflets, smaller stipules and bracts, no bracteoles, and most diagnostic of all, a 10 mm straight legume with a 2-3 mm beak.

Chaerophyllum karsianum Kit Tan & Ocakverdi, sp. nov. Figs. 2 & 3. C. bulbosi L. persimilis a quo bracteolis sparse ciliatis floribusque intense roseis (haud albis) differt.

Herba biennis, erecta, ramosa, radice brevi tuberosa proviso, Caulis teres, ad 70 cm altus, inferne hispidus, superne glaber. Collum fibrosum absens. Polia inferiora 3-pinnata, lamina viridis, hispida vel sparse hispida, ± triangularia, 10-13 x 5-9 cm; lobi segmentorum ultimorum vout ad lineari-lanecolati, ½—m lane lais, subavoit ad a cauti. Polia supernea minora. Radii 12-16, 6-8 mm longa, eglabrae. Bractocale 6-8, lanecolate ad ediliptico-lanecolate, 4-6-em longae, ad medium sparse ciliatae, persistentes. Pedicelli inaequales, quam bracteoli longiores. Umbellulae medium sparse ciliatae, persistentes. Pedicelli maequales, quam bracteoli longiores. Umbellulae didivergentes; stylopodium planum, fructifero subconico. Fructus glaber, incari-oblongis, ad maturitatens 5-6 x 1-5-2 mm, leviter lateraliter compressus, apice truncato; jugi primarii lati, obtus; vitate conspicuaes, solitariae, dorsalia 4, commissural 2.

Erect, branched biennial with short, tuberous root. Stem terete, to 70 cm, hispid below, glabrous above. Fibrous collar absent. Lower leaves 3-pinnate, lamina green, hispid to sparsely hispid, ± triangular, 10-13 × 5-9 cm; lobes of ultimate segments ovate to linear-lanceolate, 1-2 mm broad, subacute to acute. Uppermost leaves smaller. Rays 12-16, unequal, 2-5 cm, ± erect in fruit. Bracts 1-2, linear to linear-lanceolate, 6-8 mm, glabrous. Bracteoles 6-8, lanceolate to elliptic-lanceolate, 4-6 cm, sparsely ciliate at middle, persistent. Pedicels unequal, longer than bracteoles. Fertile flowers 10-20 per umbellule. Sepals obsolete. Petals broadly obovate, c. 1-75 × 2-5 mm, deeply emarginate, glabrous, deep magenta fading pink. Anthers yellow. Styles divergent; stylopodium flat, becoming subconical in fruit. Fruit glabrous, linear-oblong, 5-6 × 1-5-2 mm at maturity, slightly laterally compressed, apex truncate; primary ridges broad, rounded; vittae conspicuous, solitary, dorsal 4, commissural 2. Ft. July.

Type. Turkey A9 Kars: Arpaçay, Karakale köy, high mountain steppe, Kimiliyatak, 2100m, 24 vii 1984, *H. Ocakverdi* 2453 (holo. Selçuk Üniv. Konya, photo & fragm. E).

NE Anatolia. Probably occurring also in Caucasia. Known only from the collection cited, this species closely resembles the relatively widespread C. bulbosum L. from N Turkey, Europe, Caucasia, N Iran & Transcaspia which apparently always has white flowers and completely glabrous bracteoles throughout its geographical range. Grossheim (Fl. Kavk. ed. 2, 7: map 24, 1967) records C. roseum Bieb. (Fl. Taur.-Cauc. 1:234, 1808) from Turkey and is a very distinctive species with fewer (c.8)-rayed umbels and hirsule bracteoles.

Seseli grandivittatum (Somm. & Lev.) Schischkin in Izv. Kavkaz. Muz. 11:302 (1918).

Syn.: S. varium Trev. var. grandivittatum Somm. & Lev. in Acta Horti Petrop. 16:186 (1900).

NE Anatolia. A9 Kars: Arpaçay, Koçköyü to Karakale, Festuca steppe, c.1800 m, 9 vii 1984, H. Ocakverdi 2459 (ANK, E).

Transcaucasia. This species was previously unknown from Turkey although recorded by Grossheim (Fl. Kavk. ed. 2, 7: map 103, 1967) on the Russian border NE of Posof in Kars.

We would like to thank Dr R. R. Mill for help with the Latin translations.